

Europe Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below, above 200 Kw), Application (Stationary, Transportation, Portable), End User, and Country: Trend Forecast and Growth Opportunity

<https://marketpublishers.com/r/EACE20017430EN.html>

Date: July 2022

Pages: 117

Price: US\$ 2,363.00 (Single User License)

ID: EACE20017430EN

Abstracts

Europe fuel cell market was valued at \$1,533.2 million in 2021 and will grow by 18.8% annually over 2021-2031, driven by the increasing need for clean power generation, stringent norms on greenhouse gas (GHG) emission across the globe, increasing R&D grants and government incentives, and the mounting environmental concerns and expanding urbanization.

Highlighted with 47 tables and 50 figures, this 117-page report “Europe Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below, above 200 Kw), Application (Stationary, Transportation, Portable), End User, and Country: Trend Forecast and Growth Opportunity” is based on comprehensive research of the entire Europe fuel cell market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2018-2021 and provides forecast from 2022 till 2031 with 2021 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of Europe market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify Europe fuel cell market in every aspect of the classification from perspectives of Product, Capacity, Application, End User, and Country.

Based on Product, the Europe market is segmented into the following sub-markets with annual revenue (\$ mn), capacity (MW), and volume (units) for 2021-2031 included in each section.

Proton Exchange Membrane Fuel Cell (PEMFC)

Phosphoric Acid Fuel Cell (PAFC)

Solid Oxide Fuel Cell (SOFC)

Molten Carbonate Fuel Cell (MCFC)

Direct Methanol Fuel Cell (DMFC)

Alkaline Fuel Cell (AFC)

Other Fuel Cells

Based on Capacity, the Europe market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Small Scale (Up to 200 Kw)

Large Scale (Above 200 Kw)

By Application, the Europe market is segmented into the following sub-markets with annual revenue (\$ mn), capacity (MW), and volume (units) for 2021-2031 included in each section.

Stationary

Transportation

Portable

By End User, the Europe market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Transportation

Utilities & Government/Municipal Institutes

Residential

Commercial & Industrial

Data Centers

Military & Defense

Geographically, the following national/local markets are fully investigated:

Germany

UK

France

Spain

Italy

Netherlands

Rest of Europe (further segmented into Russia, Switzerland, Poland, Sweden, Belgium, Austria, Ireland, Norway, Denmark, and Finland)

For each key country, detailed analysis and data for annual revenue (\$ mn) are available for 2021-2031. The breakdown of national markets by Product, Capacity and Application over the forecast years are also included.

The report also covers current competitive scenario and the predicted trend; and profiles key vendors including market leaders and important emerging players.

Selected Key Players:

Ballard Power Systems Inc.

Bloom Energy Corp.

Ceres Power Holdings PLC

Cummins Inc.

Doosan Fuel Cell America, Inc.

FuelCell Energy Inc.

Horizon Fuel Cell Technologies Pte. Ltd.

Hydrogenics Corporation

Intelligent Energy Limited

Mitsubishi Hitachi Power Systems Ltd.

Nedstack Fuel Cell Technology BV

Nuvera Fuel Cells Inc. (Nuvera Fuel Cells LLC)

Panasonic Corporation

Plug Power Inc.

PowerCell Sweden AB

SFC Energy AG

Toshiba Energy Systems & Solutions Corporation

(Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

Contents

1 INTRODUCTION

- 1.1 Industry Definition and Research Scope
 - 1.1.1 Industry Definition
 - 1.1.2 Research Scope
- 1.2 Research Methodology
 - 1.2.1 Overview of Market Research Methodology
 - 1.2.2 Market Assumption
 - 1.2.3 Secondary Data
 - 1.2.4 Primary Data
 - 1.2.5 Data Filtration and Model Design
 - 1.2.6 Market Size/Share Estimation
 - 1.2.7 Research Limitations
- 1.3 Executive Summary

2 MARKET OVERVIEW AND DYNAMICS

- 2.1 Market Size and Forecast
 - 2.1.1 Impact of COVID-19 on World Economy
 - 2.1.2 Impact of COVID-19 on the Market
- 2.2 Major Growth Drivers
- 2.3 Market Restraints and Challenges
- 2.4 Emerging Opportunities and Market Trends
- 2.5 Porter's Fiver Forces Analysis

3 SEGMENTATION OF EUROPE MARKET BY PRODUCT

- 3.1 Market Overview by Product
- 3.2 Proton Exchange Membrane Fuel Cell (PEMFC)
- 3.3 Phosphoric Acid Fuel Cell (PAFC)
- 3.4 Solid Oxide Fuel Cell (SOFC)
- 3.5 Molten Carbonate Fuel Cell (MCFC)
- 3.6 Direct Methanol Fuel Cell (DMFC)
- 3.7 Alkaline Fuel Cell (AFC)
- 3.8 Other Fuel Cells

4 SEGMENTATION OF EUROPE MARKET BY CAPACITY

Europe Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below,...

- 4.1 Market Overview by Capacity
- 4.2 Small Scale (Up to 200 Kw)
- 4.3 Large Scale (Above 200 Kw)

5 SEGMENTATION OF EUROPE MARKET BY APPLICATION

- 5.1 Market Overview by Application
- 5.2 Stationary
- 5.3 Transportation
- 5.4 Portable

6 SEGMENTATION OF EUROPE MARKET BY END USER

- 6.1 Market Overview by End User
- 6.2 Transportation
- 6.3 Utilities & Government/Municipal Institutes
- 6.4 Residential
- 6.5 Commercial & Industrial
- 6.6 Data Centers
- 6.7 Military & Defense

7 EUROPEAN MARKET 2021-2031 BY COUNTRY

- 7.1 Overview of European Market
- 7.2 Germany
- 7.3 U.K.
- 7.4 France
- 7.5 Spain
- 7.6 Italy
- 7.7 Netherlands
- 7.8 Rest of European Market

8 COMPETITIVE LANDSCAPE

- 8.1 Overview of Key Vendors
 - 8.2 New Product Launch, Partnership, Investment, and M&A
 - 8.3 Company Profiles
- Ballard Power Systems Inc.

Bloom Energy Corp.
Ceres Power Holdings PLC
Cummins Inc.
Doosan Fuel Cell America, Inc.
FuelCell Energy Inc.
Horizon Fuel Cell Technologies Pte. Ltd.
Hydrogenics Corporation
Intelligent Energy Limited
Mitsubishi Hitachi Power Systems Ltd.
Nedstack Fuel Cell Technology BV
Nuvera Fuel Cells Inc. (Nuvera Fuel Cells LLC)
Panasonic Corporation
Plug Power Inc.
PowerCell Sweden AB
SFC Energy AG
Toshiba Energy Systems & Solutions Corporation
RELATED REPORTS

List Of Tables

LIST OF TABLES

Table 1. Snapshot of Europe Fuel Cell Market in Balanced Perspective, 2021-2031

Table 2. World Economic Outlook, 2021-2031

Table 3. Pricing Trend of Lithium-ion Battery, USD per kWh, 2016-2031

Table 4. Main Product Trends and Market Opportunities in Europe Fuel Cell Market

Table 5. Comparison of Fuel Cell Products

Table 6. Europe Fuel Cell Market by Product, 2021-2031, Revenue (\$ mn)

Table 7. Europe Fuel Cell Market by Product, 2021-2031, Capacity (MW)

Table 8. Europe Fuel Cell Market by Product, 2021-2031, Volume (units)

Table 9. Europe Fuel Cell Market by Product: Proton Exchange Membrane Fuel Cell (PEMFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 10. Europe Fuel Cell Market by Product: Phosphoric Acid Fuel Cell (PAFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 11. Europe Fuel Cell Market by Product: Solid Oxide Fuel Cell (SOFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 12. Europe Fuel Cell Market by Product: Molten Carbonate Fuel Cell (MCFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 13. Europe Fuel Cell Market by Product: Direct Methanol Fuel Cell (DMFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 14. Europe Fuel Cell Market by Product: Alkaline Fuel Cell (AFC), 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 15. Europe Fuel Cell Market by Product: Other Fuel Cells, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 16. Europe Fuel Cell Market by Capacity, 2021-2031, \$ mn

Table 17. Europe Fuel Cell Market by Application, 2021-2031, Revenue (\$ mn)

Table 18. Europe Fuel Cell Market by Application, 2021-2031, Capacity (MW)

Table 19. Europe Fuel Cell Market by Application, 2021-2031, Volume (units)

Table 20. Europe Fuel Cell Market by by Application: Stationary, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 21. Europe Fuel Cell Market by by Application: Transportation, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 22. Europe Fuel Cell Market by by Application: Portable, 2021-2031, Revenue (\$ mn)/Capacity (MW)/Volume (units)

Table 23. Europe Fuel Cell Market by End User, 2021-2031, \$ mn

Table 24. List of Fuel Cell Projects under Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

Table 25. Europe Fuel Cell Market by Country, 2021-2031, \$ mn
Table 26. Germany Fuel Cell Market by Product, 2021-2031, \$ mn
Table 27. Germany Fuel Cell Market by Capacity, 2021-2031, \$ mn
Table 28. Germany Fuel Cell Market by Application, 2021-2031, \$ mn
Table 29. U.K. Fuel Cell Market by Product, 2021-2031, \$ mn
Table 30. U.K. Fuel Cell Market by Capacity, 2021-2031, \$ mn
Table 31. U.K. Fuel Cell Market by Application, 2021-2031, \$ mn
Table 32. France Fuel Cell Market by Product, 2021-2031, \$ mn
Table 33. France Fuel Cell Market by Capacity, 2021-2031, \$ mn
Table 34. France Fuel Cell Market by Application, 2021-2031, \$ mn
Table 35. Spain Fuel Cell Market by Product, 2021-2031, \$ mn
Table 36. Spain Fuel Cell Market by Capacity, 2021-2031, \$ mn
Table 37. Spain Fuel Cell Market by Application, 2021-2031, \$ mn
Table 38. Italy Fuel Cell Market by Product, 2021-2031, \$ mn
Table 39. Italy Fuel Cell Market by Capacity, 2021-2031, \$ mn
Table 40. Italy Fuel Cell Market by Application, 2021-2031, \$ mn
Table 41. Netherlands Fuel Cell Market by Product, 2021-2031, \$ mn
Table 42. Netherlands Fuel Cell Market by Capacity, 2021-2031, \$ mn
Table 43. Netherlands Fuel Cell Market by Application, 2021-2031, \$ mn
Table 44. Fuel Cell Market in Rest of Europe by Country, 2021-2031, \$ mn
Table 45. Ballard Power Systems Inc.: Company Snapshot
Table 46. Ballard Power Systems Inc.: Business Segmentation
Table 47. Ballard Power Systems Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

Figure 1. A Block Diagram of a Fuel Cell

Figure 2. Research Method Flow Chart

Figure 3. Bottom-up Approach and Top-down Approach for Market Estimation

Figure 4. Europe Market Forecast in Optimistic, Conservative and Balanced Perspectives, 2021-2031

Figure 5. Industry Value Chain Analysis

Figure 6. Europe Fuel Cell Market, 2021-2031, \$ mn

Figure 7. Impact of COVID-19 on Business

Figure 8. Primary Drivers and Impact Factors of Europe Fuel Cell Market

Figure 9. World Electric Vehicle Market, 2019-2030, \$ bn

Figure 10. Primary Restraints and Impact Factors of Europe Fuel Cell Market

Figure 11. Investment Opportunity Analysis

Figure 12. Porter's Five Forces Analysis of Europe Fuel Cell Market

Figure 13. Breakdown of Europe Fuel Cell Market by Product, 2021-2031, % of Revenue

Figure 14. Europe Addressable Market Cap in 2022-2031 by Product, Revenue (\$ mn) and Share (%)

Figure 15. Breakdown of Europe Fuel Cell Market by Product, 2021-2031, % of Capacity

Figure 16. Europe Addressable Market Cap in 2022-2031 by Product, Capacity (MW) and Share (%)

Figure 17. Breakdown of Europe Fuel Cell Market by Product, 2021-2031, % of Volume

Figure 18. Europe Addressable Market Cap in 2022-2031 by Product, Volume (units) and Share (%)

Figure 19. Breakdown of Europe Fuel Cell Market by Capacity, 2021-2031, % of Sales Revenue

Figure 20. Europe Addressable Market Cap in 2022-2031 by Capacity, Value (\$ mn) and Share (%)

Figure 21. Europe Fuel Cell Market by Capacity: Small Scale (Up to 200 Kw), 2021-2031, \$ mn

Figure 22. Europe Fuel Cell Market by Capacity: Large Scale (Above 200 Kw), 2021-2031, \$ mn

Figure 23. Breakdown of Europe Fuel Cell Market by Application, 2021-2031, % of Sales Revenue

Figure 24. Europe Addressable Market Cap in 2022-2031 by Application, Revenue (\$

mn) and Share (%)

Figure 25. Breakdown of Europe Fuel Cell Market by Application, 2021-2031, % of Capacity

Figure 26. Europe Addressable Market Cap in 2022-2031 by Application, Capacity (MW) and Share (%)

Figure 27. Breakdown of Europe Fuel Cell Market by Application, 2021-2031, % of Volume

Figure 28. Europe Addressable Market Cap in 2022-2031 by Application, Volume (units) and Share (%)

Figure 29. Breakdown of Europe Fuel Cell Market by End User, 2021-2031, % of Revenue

Figure 30. Europe Addressable Market Cap in 2022-2031 by End User, Value (\$ mn) and Share (%)

Figure 31. Europe Fuel Cell Market by End User: Transportation, 2021-2031, \$ mn

Figure 32. Europe Fuel Cell Market by End User: Utilities & Government/Municipal Institutes, 2021-2031, \$ mn

Figure 33. Europe Fuel Cell Market by End User: Residential, 2021-2031, \$ mn

Figure 34. Europe Fuel Cell Market by End User: Commercial & Industrial, 2021-2031, \$ mn

Figure 35. Europe Fuel Cell Market by End User: Data Centers, 2021-2031, \$ mn

Figure 36. Europe Fuel Cell Market by End User: Military & Defense, 2021-2031, \$ mn

Figure 37. Breakdown of European Fuel Cell Market by Country, 2021 and 2031, % of Revenue

Figure 38. Contribution to Europe 2022-2031 Cumulative Market by Country, Value (\$ mn) and Share (%)

Figure 39. Fuel Cell Market in Germany, 2021-2031, \$ mn

Figure 40. Fuel Cell Market in U.K., 2021-2031, \$ mn

Figure 41. Fuel Cell Market in France, 2021-2031, \$ mn

Figure 42. Fuel Cell Market in Spain, 2021-2031, \$ mn

Figure 43. Fuel Cell Market in Italy, 2021-2031, \$ mn

Figure 44. Fuel Cell Market in Netherlands, 2021-2031, \$ mn

Figure 45. Fuel Cell Market in Rest of Europe, 2021-2031, \$ mn

Figure 46. Growth Stage of Europe Fuel Cell Industry over the Forecast Period

I would like to order

Product name: Europe Fuel Cell Market 2021-2031 by Product (PEMFC, PAFC, SOFC, MCFC, DMFC, AFC), Capacity (200 Kw or below, above 200 Kw), Application (Stationary, Transportation, Portable), End User, and Country: Trend Forecast and Growth Opportunity

Product link: <https://marketpublishers.com/r/EACE20017430EN.html>

Price: US\$ 2,363.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EACE20017430EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970